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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/551,007	09/27/2005	Ulrich Denecke	20800/0204885-US0	1389	
7278 DARBY & DA	7590 04/02/2007 ARBY P.C.		EXAMINER		
P. O. BOX 5257			NGUYEN, NINH H		
NEW YORK,	NY 10150-5257		ART UNIT PAPER NUMBER 3745		
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MC	NTHS	04/02/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
	10/551,007	DENECKE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ninh H. Nguyen	3745	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
•	 nis action is non-final.		
3) Since this application is in condition for allow		osecution as to the merits is	
closed in accordance with the practice under			
Disposition of Claims	, ,		
4)⊠ Claim(s) <u>16-32</u> is/are pending in the applicat	tion		
4a) Of the above claim(s) is/are withdown			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>16-32</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	l/or election requirement.	,	
Application Papers			
9) The specification is objected to by the Exami	ner		
10)⊠ The drawing(s) filed on 27 September 2005 i		ted to by the Examiner.	
Applicant may not request that any objection to the	•	·	
Replacement drawing sheet(s) including the corre			
11) The oath or declaration is objected to by the			
Priority under 35 U.S.C. § 119	•		
12)⊠ Acknowledgment is made of a claim for foreignal a)⊠ All b)□ Some * c)□ None of:	gn priority under 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority docume 	ents have been received.		
Certified copies of the priority docume	ents have been received in Applicat	ion No	
Copies of the certified copies of the pr	•	ed in this National Stage	
application from the International Bure	, , , , , , , , , , , , , , , , , , , ,		,
* See the attached detailed Office action for a li	ist of the certified copies not receive	ed.	
	•		
Attachment(s)	_		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D		
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal F		
Paper No(s)/Mail Date <u>09/27/05</u> .	6) Other:		

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DETAILED ACTION

Specification

1. While the specification is not objected to, the practice of referring to claim numbers within the specification as seen on page 4 is strongly discouraged because claim numbers often changed during prosecution of an application. If the application is finally issued into a patent, the final claims 14 and 15 may not have the features that the specification referring to.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 18, 19-21, 22-26, 27, and 28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

There is a lack of antecedent basis for the limitations of "each of the webs" in claims 18 and 22, "the webs" in claims 19 and 28, and "the two similar groups" in claim 27. These limitations are recited in claim 17 which is not the corresponding independent claim of the claims being discussed.

Claims 20, 21 and 23-26 are indefinite as being dependent on claims 19 and 22, respectively.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 16-21, and 29-32, as far as they are definite, are rejected under 35 U.S.C. 102(b) as being anticipated by Covington et al. (5,358,381).

Covington discloses a twist element for a bearingless rotor (Figs. 1-10), comprising a composite fiber material, having a symmetrical, flattened cross section with an outer contour of a horizontal section through the center of a double cone (Fig. 8; col. 5, line 35-48);

wherein the cross section of the twist element includes a thin root area forming a middle area (near elements 83 and 85 of Fig. 8), and two similar groups of webs (shown at 67-69 and 70-72), wherein the webs of each of the two similar groups extend from the middle area and are separated from each other vertically by narrows gaps (Fig. 8), and wherein a thickness of each web increases with increasing distance from the middle area (Fig. 8);

wherein each of the webs have a wedge-shaped cross section having a tip meeting the root area (Fig. 8);

wherein the webs includes unidirectional reinforcement fiber packets 75 (Fig. 8) disposed at least at an area of lateral sides of the cross-section of the twist element, each of the reinforcement fiber packets having fibers running in a lengthwise direction of the twist element;

wherein the unidirectional reinforcement fiber packets extend to the outer contour of the cross section of the twist element (Fig. 8);

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wherein the fibers of the unidirectional reinforcement fiber packets include carbon fibers (col. 8, lines 1-4); and

wherein the twist element forms an integral part of one of a rotor blade, a rotor blade connection element, a rotor blade joining element and a rotor head element (Fig. 1).

Allowable Subject Matter

6. Claims 22-28 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Prior Art

The prior art made of record but not relied upon is considered pertinent to applicant's disclosure and consists of 2 patents.

Yasui (6,805,948) and Matsumoto et al. (4,892,461) are cited to show different flex beam elements for helicopter rotors.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Ninh Nguyen whose telephone number is (571) 272-4823. The examiner can be normally reached on Monday-Friday from 7:30 A.M. to 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look, can be reached at (571) 272-4820. The fax number for this group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, please go to http://pair-direct.uspto.gov or contact the Electronic Business center (EBC) at 866-217-9197 (toll-free).

NINH H. NGUYEN (PRIMARY EXAMINER

Nhn March 26, 2007